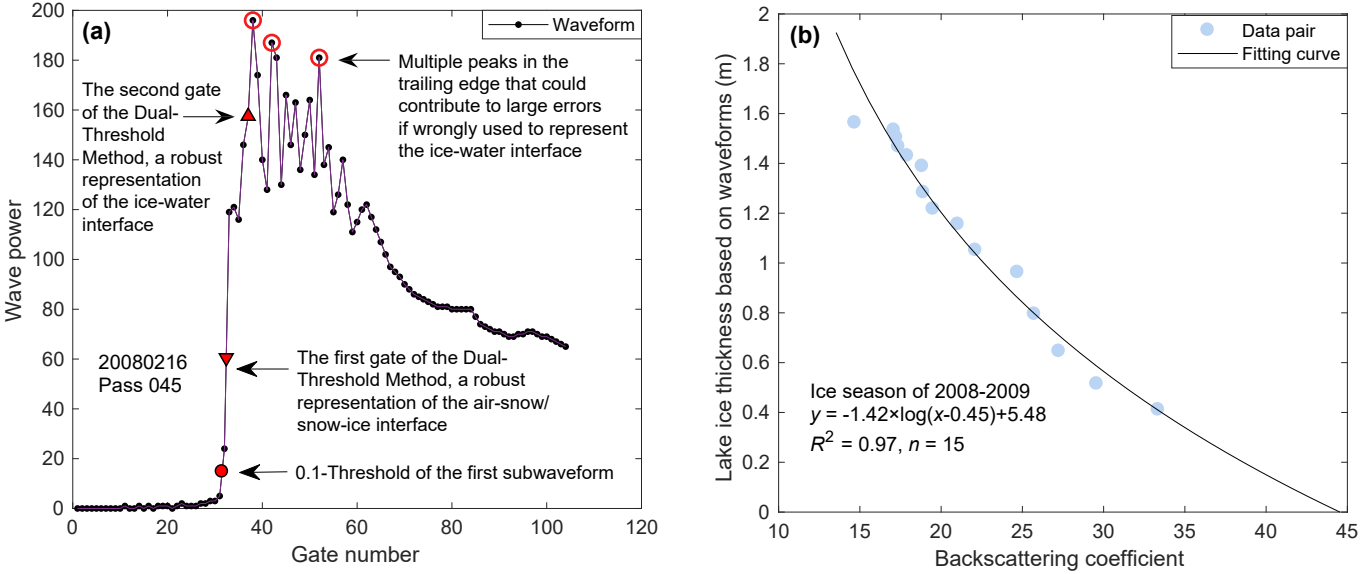
(a)
Waveform
Multiple peaks in the trailing edge that could contribute to large errors if wrongly used to represent the ice-water interface
The second gate of the Dual-Threshold Method, a robust representation of the ice-water interface
20080216
Pass 045
The first gate of the Dual-Threshold Method, a robust representation of the air-snow/ snow-ice interface
0.1-Threshold of the first subwaveform
Wave power
Gate number
(b)
Data pair
Fitting curve
Ice season of 2008-2009
y = -1.42×log(x-0.45)+5.48
R2 = 0.97, n = 15
Lake ice thickness based on waveforms (m)
Backscattering coefficient